

(19) World Intellectual Property Organization
International Bureau



23 JUL 2004



(43) International Publication Date
21 August 2003 (21.08.2003)

PCT

(10) International Publication Number
WO 03/069355 A1

(51) International Patent Classification⁷: **G01P 15/18**

7, FIN-00100 Helsinki (FI). SALMINEN, Jukka [FI/FI]; Kappalaisentie 15 C, FIN-02940 Espoo (FI).

(21) International Application Number: PCT/FI03/00095

(22) International Filing Date: 6 February 2003 (06.02.2003)

(74) Agent: RUUSKANEN, Juha-Pekka; Page White & Farrer, Runeberginkatu 5, 10th Floor, FIN-00100 Helsinki (FI).

(25) Filing Language: English

(81) Designated States (*national*): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(26) Publication Language: English

(30) Priority Data:
20020284 12 February 2002 (12.02.2002) FI

(71) Applicant (*for all designated States except US*): NOKIA CORPORATION [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI).

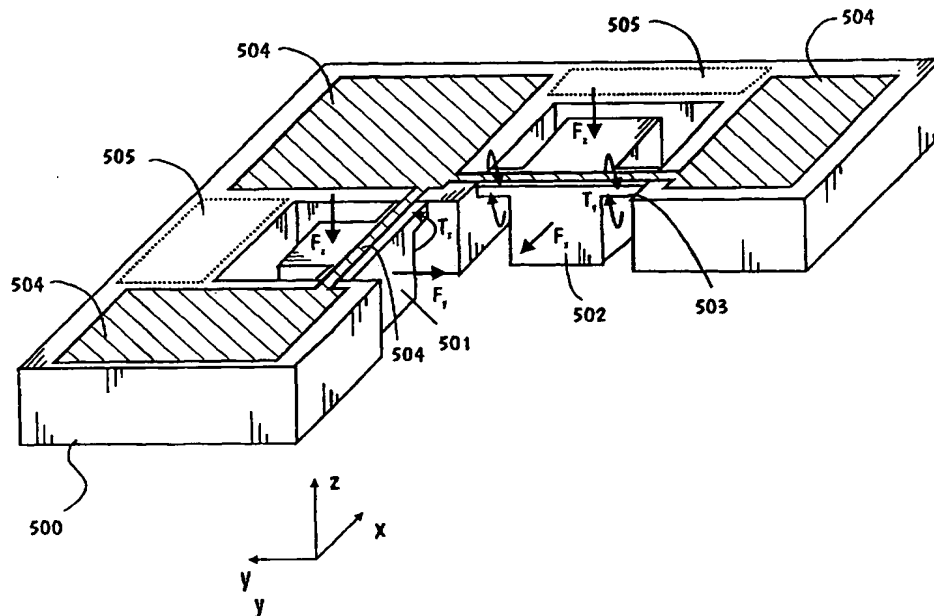
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI,

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): HJELT, Kari [FI/FI]; Kavallinmäki 17, FIN-02750 Espoo (FI). RYHÄNEN, Tapani [FI/FI]; Luoteisväylä 31 as 3, FIN-00200 Helsinki (FI). SILANTO, Samuli [FI/FI]; Oksasentie 6 B

[Continued on next page]

(54) Title: ACCELERATION SENSOR



(57) Abstract: The present invention relates to a low-cost breakable inertial threshold sensor using mainly micro-machining silicon technology. The sensor is constructed on a silicon-wafer or on some other brittle material according to the MEMS process. The sensor comprises a first body portion, a second body portion, and detecting means for giving an indication if the second body portion has damaged the detecting means. The status of the sensor can be read in various ways. In one embodiment the status is remotely readable.

WO 03/069355 A1



SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*